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IS 7008-2 (1988): ISO Metric trapezoidal screw threads, Part 2: Pitch diameter combinations [PGD 20: Engineering Standards]



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“Knowledge is such a treasure which cannot be stolen”

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IS 7008 (Part 2) : 1988
ISO 2902 : 1977

Indian Standard

ISO METRIC TRAPEZOIDAL SCREW THREADS

PART 2 PITCH DIAMETER COMBINATIONS

(First Revision)

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BUREAU OF INDIAN STANDARDS

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Price Group 2

Indian Standard

ISO METRIC TRAPEZOIDAL SCREW THREADS

PART 2 PITCH DIAMETER COMBINATIONS

(First Revision)

NATIONAL FOREWORD

This Indian Standard (Part 2) (First Revision), which is identical with ISO 2902 : 1977 'ISO metric trapezoidal screw threads — General plan' issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on 3 October 1988 on the recommendation of the Screw Threads Sectional Committee (EDC 70) and approval of the Mechanical Engineering Division Council.

This standard (Part 2) was originally issued in 1973 and was based on ISO/DIS 2902 issued by ISO. This revision has been made by adoption of ISO 2902 : 1977 to keep it in line with the ISO standard. A figure, showing lead and pitch of multiple-start thread, has been included in this revision.

IS 7008 was earlier issued in four parts, which on revision, are being aligned with the corresponding ISO standards. Other three parts in the series cover:

Part 1 : 1988 Basic profile and maximum material profiles

Part 3 : 1988 Basic dimensions

Part 4 : 1988 Tolerances

In the adopted standard certain terminology and conventions are not identical with those used in Indian Standards; attention is specially drawn to the following:

- a) Wherever the words 'International Standard' appear, referring to this standard, they should be read as 'Indian Standard'; and
- b) Comma (,) has been used as a decimal marker while in Indian Standards the current practice is to use point (.) as the decimal marker.

CROSS REFERENCE

<i>International Standard</i>	<i>Indian Standard</i>	<i>Degree of Correspondence</i>
ISO 2901 : 1977 ISO metric trapezoidal screw threads — Basic profiles and material profiles	IS 7008 (Part 1) : 1988 ISO metric trapezoidal screw threads: Part 1 Basic profile and maximum material profiles	Identical

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1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies a series of diameter and pitch combinations for ISO metric trapezoidal screw threads having the basic profile according to ISO 2901

2 REFERENCE

ISO 2901, *ISO metric trapezoidal screw threads -- Basic profile and maximum material profiles.*

3 CHOICE OF DIAMETER AND PITCH

Choose, for preference, diameters in column 1 of the table and, if necessary, in column 2, and then column 3.

The diameters in column 3 shall not be used for new designs.

For the diameter retained, choose one of the pitches indicated on the corresponding line, for preference the pitches within frames.

If it is necessary to use a trapezoidal thread with a pitch other than indicated in the table, choose one of the pitches assigned to a neighbouring diameter.

4 DESIGNATION

The one-start metric trapezoidal screw threads conforming to this International Standard shall be designated by the letters Tr, followed by the values of the nominal diameter and of the pitch expressed in millimetres and separated by the sign x.

Example : Tr 40 x 7

The multiple-start metric trapezoidal screw threads conforming to this International Standard shall be designated by the letters Tr followed by the values of the nominal diameter and of the lead for the multiple-start threads, separated by the sign x, and, in brackets, the letter P and the value of the pitch (axial distance between two neighbouring flanks in the same direction), all expressed in millimetres (see figure).

Example : Tr 40 x 14 (P7)

(Number of starts = $\frac{\text{Lead}}{\text{Pitch}} = \frac{14}{7}$ defines a screw thread of 40 diameter with 2 starts)

For left-hand metric trapezoidal screw threads conforming to this International Standard, the letters LH shall be added to the thread designation.

Example : Tr 40 x 14 (P7) LH

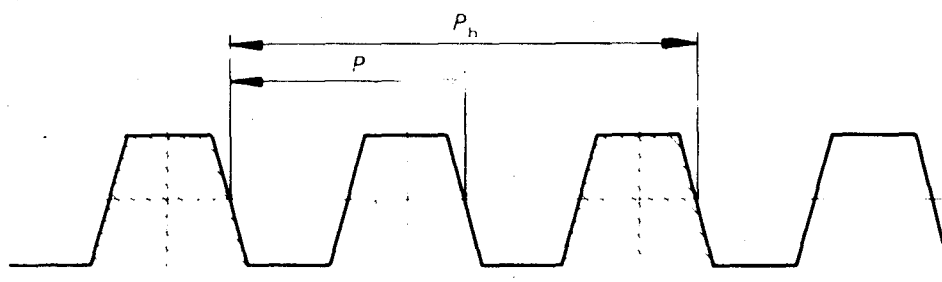


FIGURE -- Lead and pitch of multiple-start thread

P_h = lead (axial advance at one turn)

P = pitch (axial distance between two neighbouring flanks in the same direction)

5 DIAMETER/PITCH COMBINATIONS

TABLE – Diameter/pitch Dimensions in millimetres

Nominal diameters			Pitches																						
Col. 1	Col. 2	Col. 3	44	40	36	32	28	24	22	20	18	16	14	12	10	9	8	7	6	5	4	3	2	1,5	
8	9																							1,5	
10																						2	2	1,5	
12	11																					3	2		
	14																					3	2		
16																					4		2		
20	18																				4	4	2		
																							2		
24	22																8			5		3			
	26																8			5		3			
28																	8			5		3			
32	30														10						6	3			
															10						6	3			
36	34														10						6	3			
	38														10						6	3			
40															10						7		3		
44	42													12							7	3			
															10						7	3			
48	46														12								3		
	50														12							3			
52															12								3		
60	55												14										3		
													14			9							3		
70	65											16			10						4				
	75											16			10						4				
80												16			10						4				
90	85										18			12							4				
											18			12							4				
100	95									20				12							4				
		105								20				12							4				
	110													12							4				
120		115							22					14						6					
									22					14						6					
	130	125							22					14						6					
		135						24						14						6					
140								24						14						6					
	150	145						24						16						6					
														16						6					
160		155						24						16						6					
		165						28						16						6					
	170							28						16						6					
180		175						28						18				8							
														18				8							
	190	185				32								18				8							
		195				32								18				8							
200																		8							
220	210				36					20								8							
					36					20								8							
240	230				36					20								8							
																		8							
260	250			40						22					12										
				40						22					12										
280	270			40				24							12										
				40				24							12										
300	290		44					24							12										
			44					24							12										

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